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AUTHOR: Wistrowski, Wieslaw (Engineer)

TITLE: Protection against the effects of nuclear weapons

SOURCE: Przeglad techniczny, no. 4, 1964, 6

TOPIC TAGS: nuclear weapon, nuclear explosion, atomic bomb, radiation damage, radiation protection, radiation shielding, atomic blast effect, gamma radiation, neutron radiation, atomic shock wave, radiation shielding materials, hydrogen bomb, thermonuclear bomb, fission bomb, fusion bomb, radioactive fallout

ABSTRACT: The author describes in very general terms the nature and effects of nuclear weapons, which he classifies into explosive weapons and devices spreading radioactivity. The article concentrates on the first category, broadly describing the shock wave, the emission of light, heat, and penetrating radiation, and their offects on people and materials. Thicknesses of the latter which cut the radiation intensity by 50% are cited in view of their possible use in shielding. Radioactive fallout is also broadly discussed and some shielding properties of materials (air, wood, water, earth, concrete, iron, and lead) are given.

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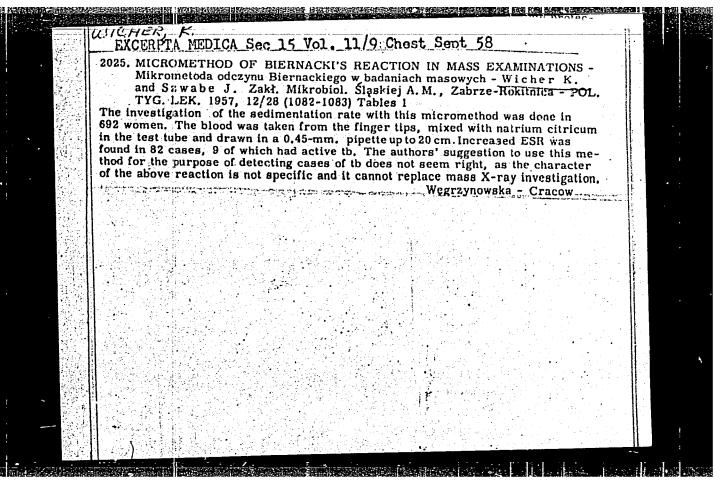
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Abstract: A suspension of live or heat killed pallid spirochetes (Nichols strain) isolated from the testicles of rabbits was introduced internally (5 times in the course of 8-10 days) to healthy rabbits and those ill with syphilis. An increase of the titer of the Wasserman reaction (WR) was noted in all of the rabbits in 2-3 weeks after the introduction of the

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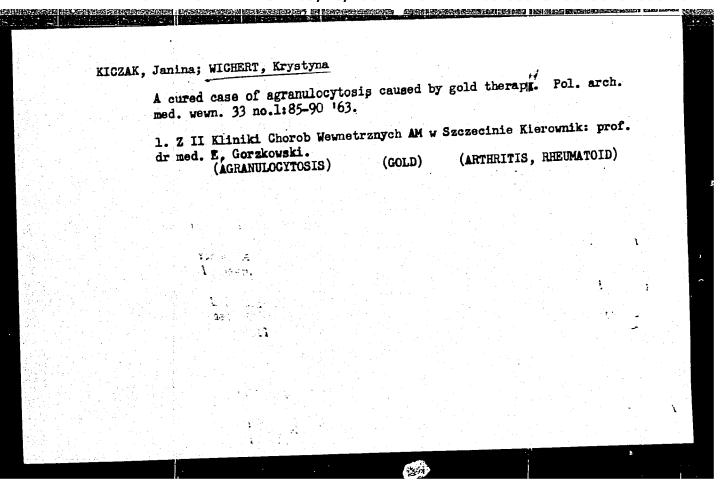
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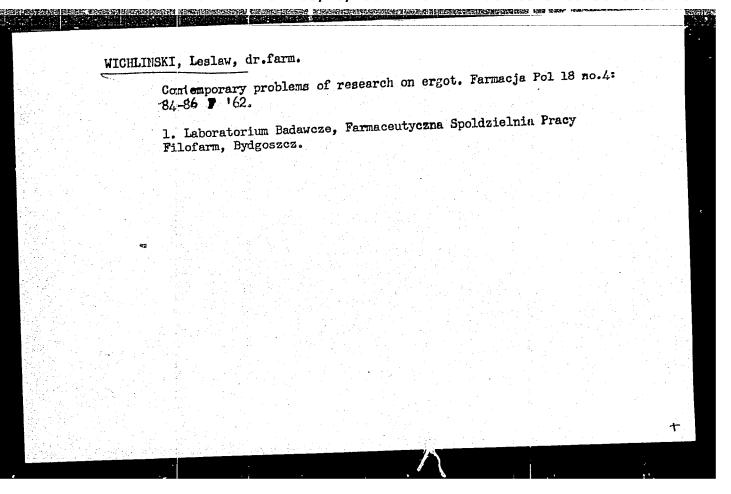
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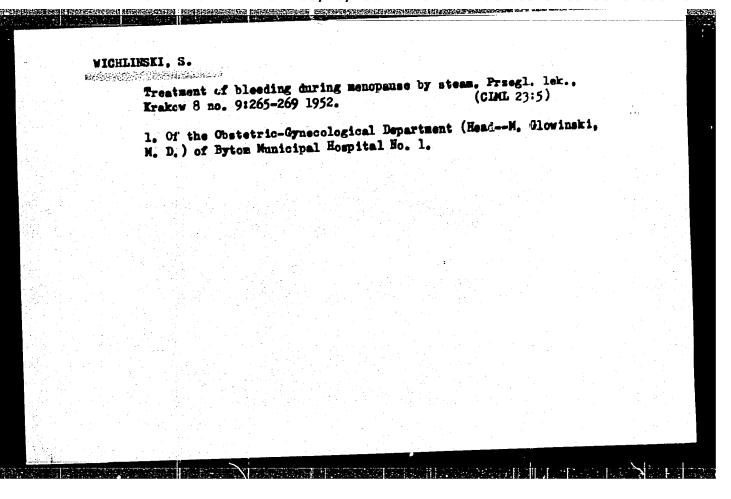
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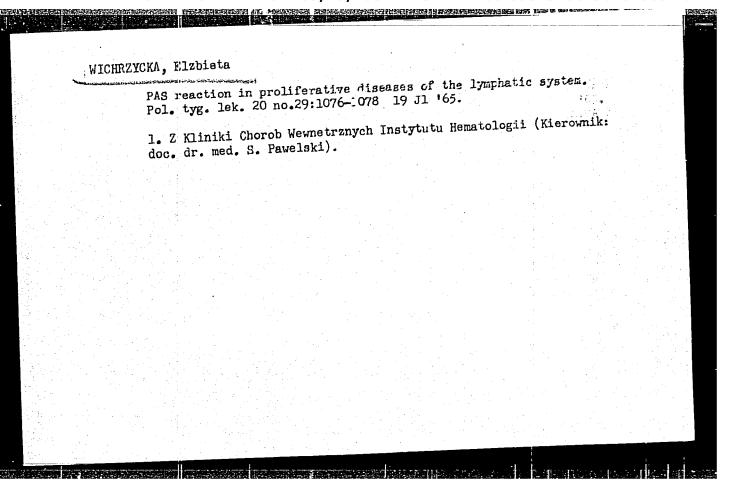
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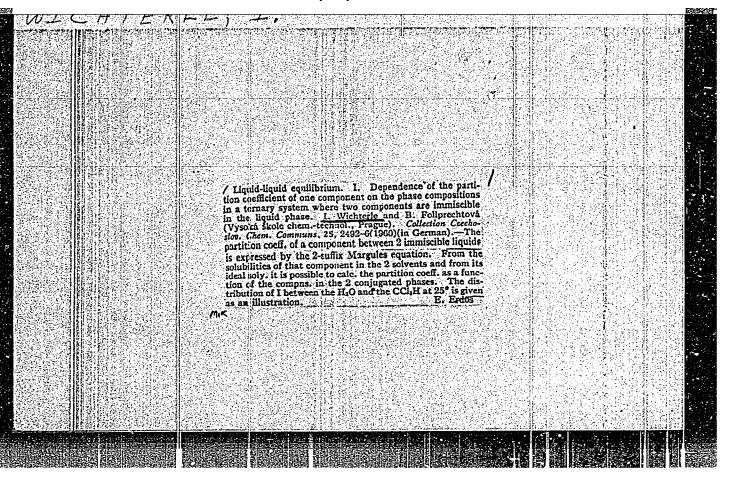
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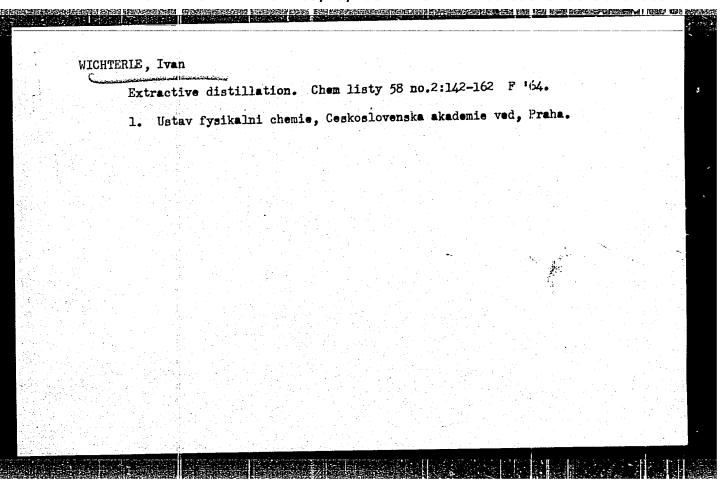
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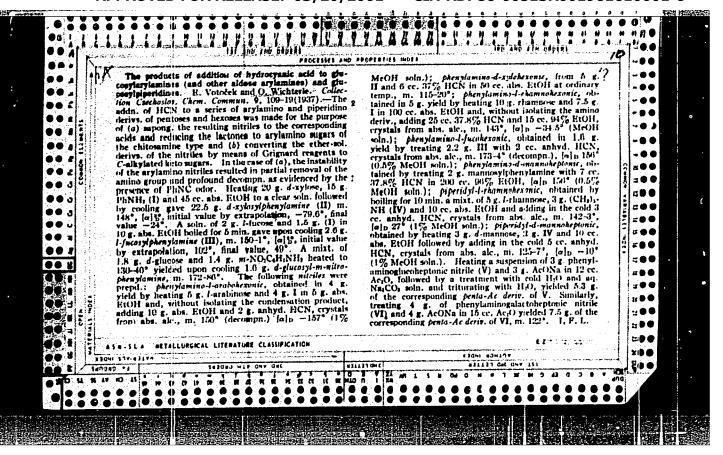
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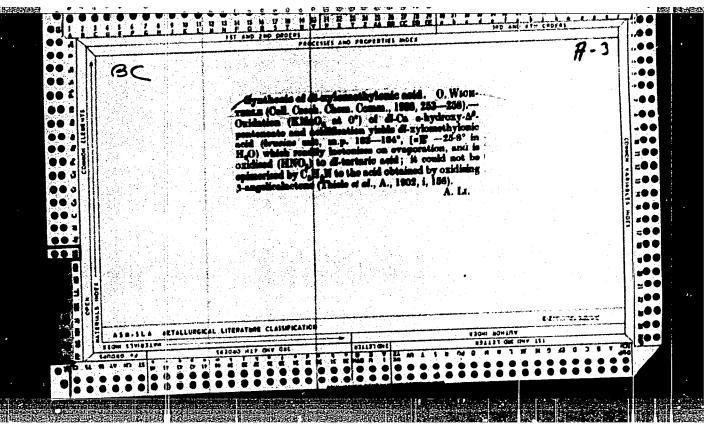


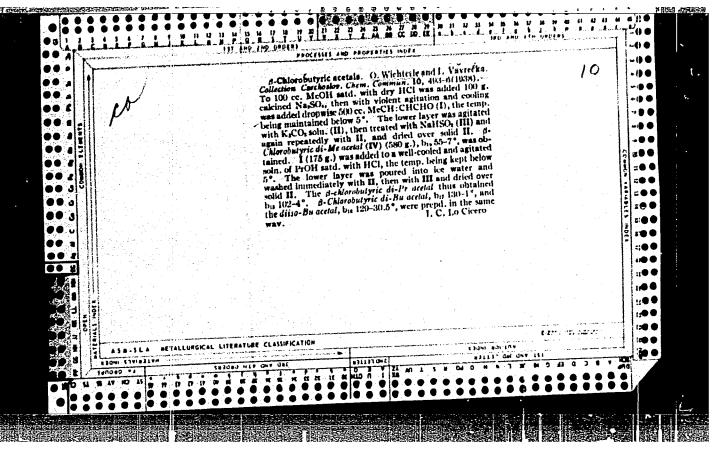
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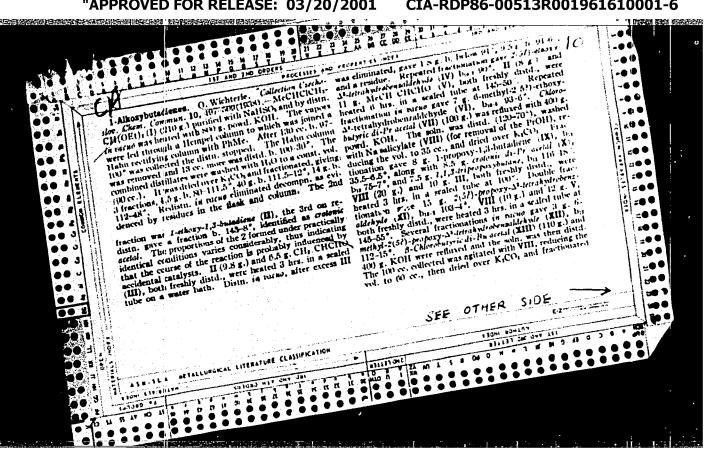
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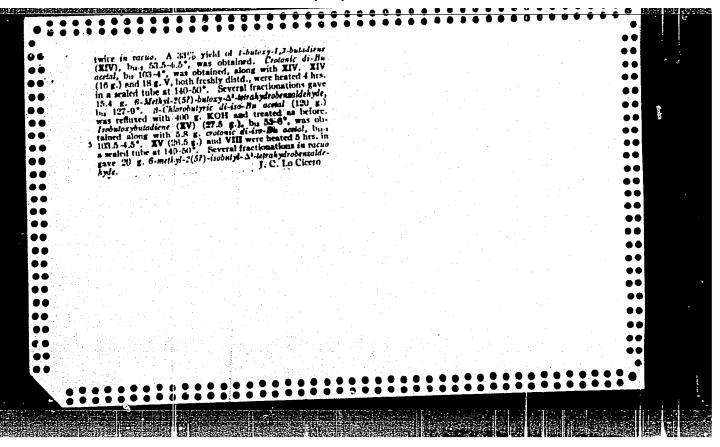




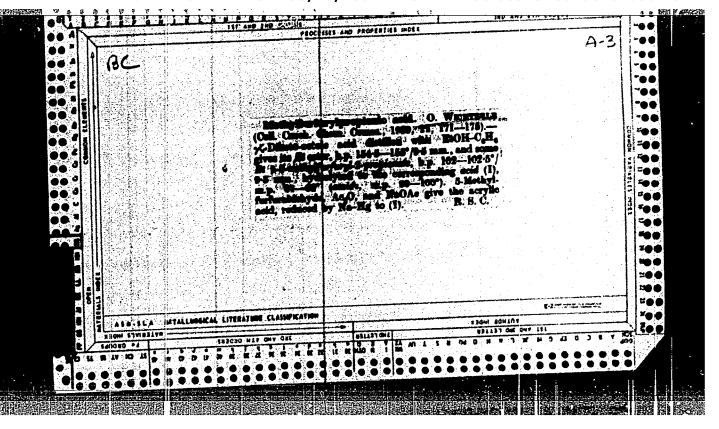


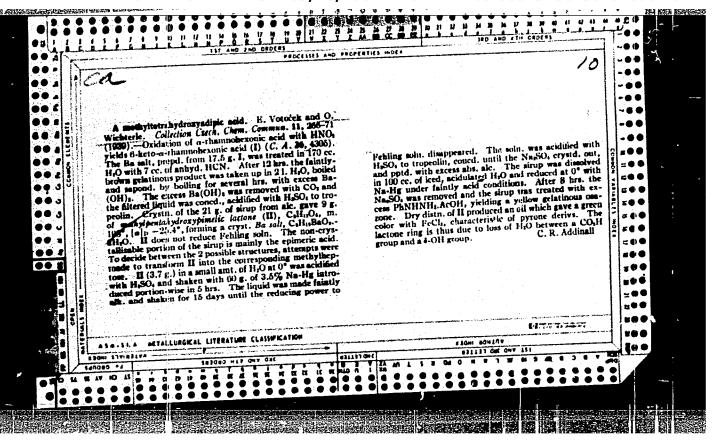
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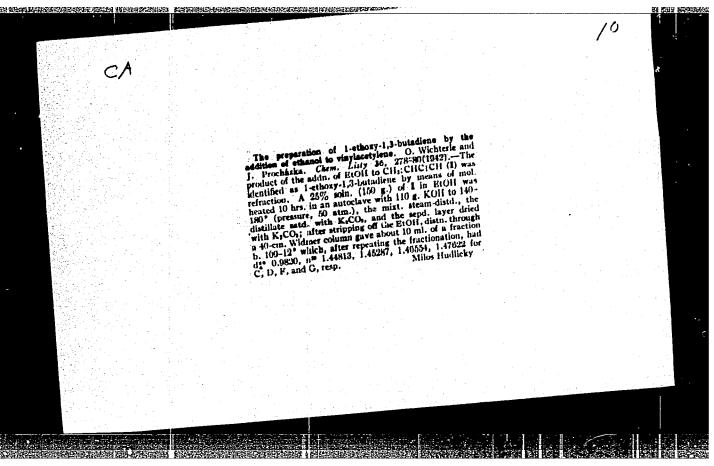


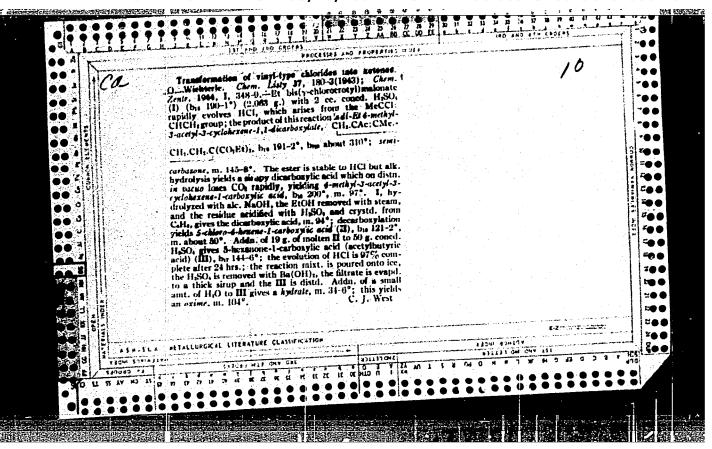


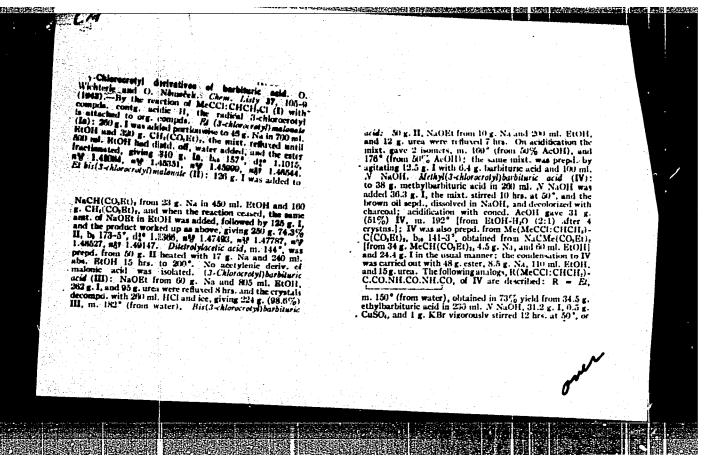
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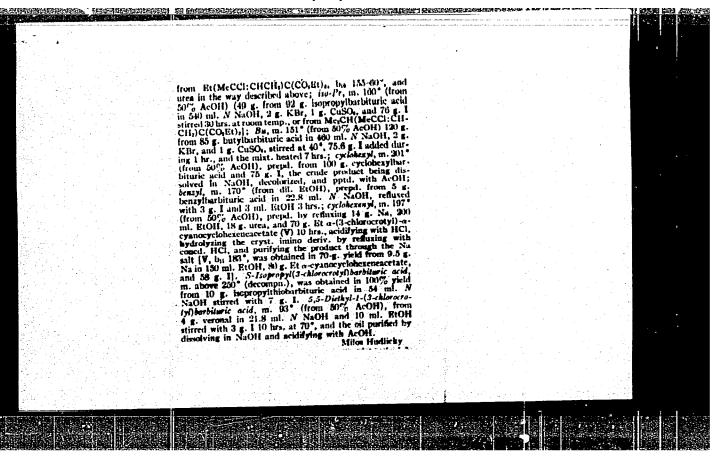




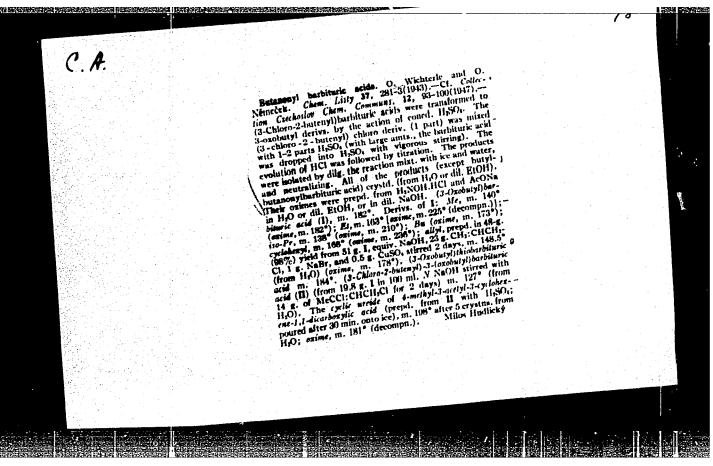


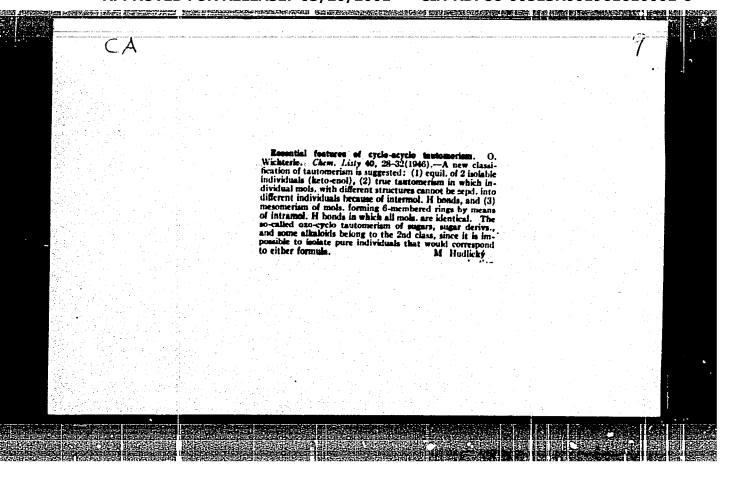


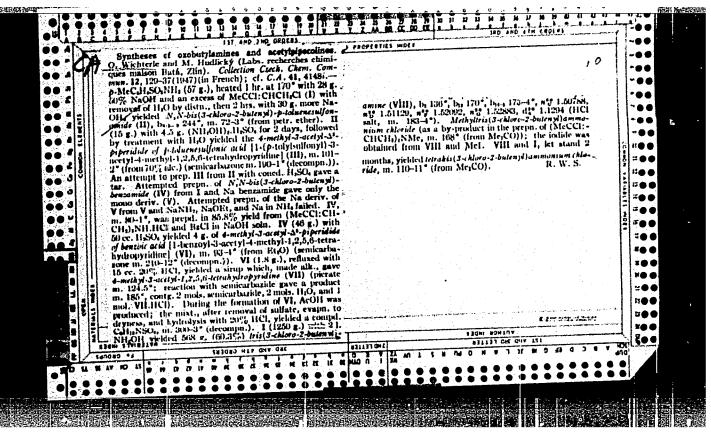




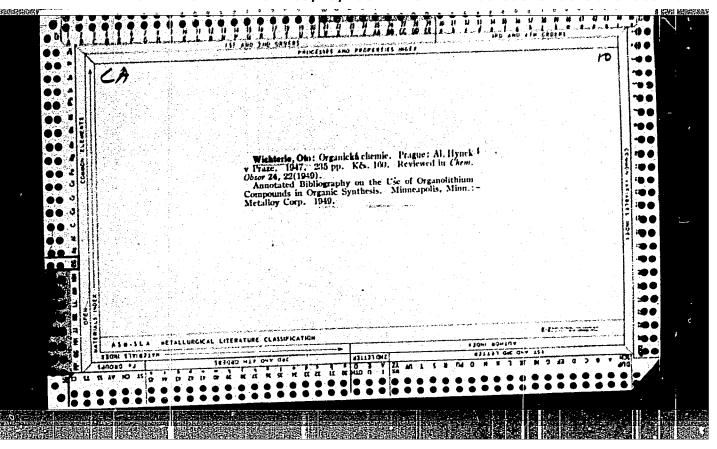
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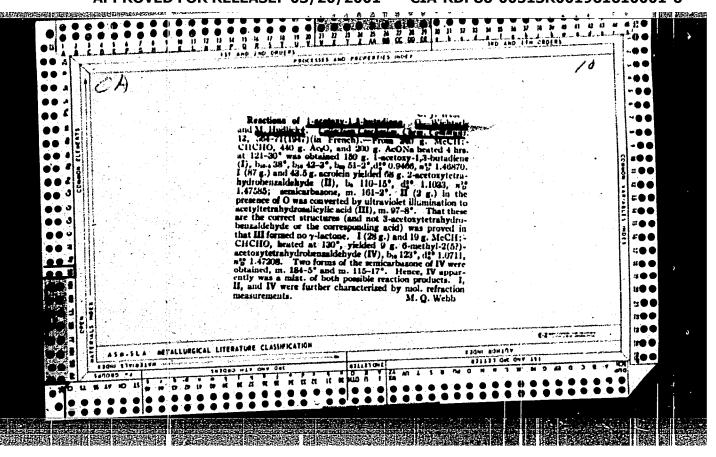




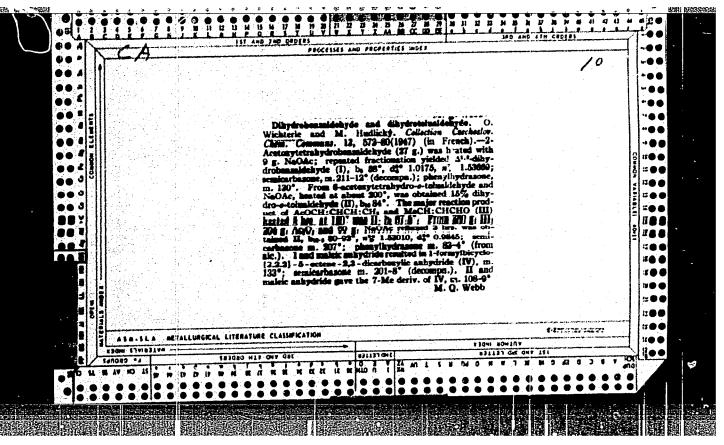
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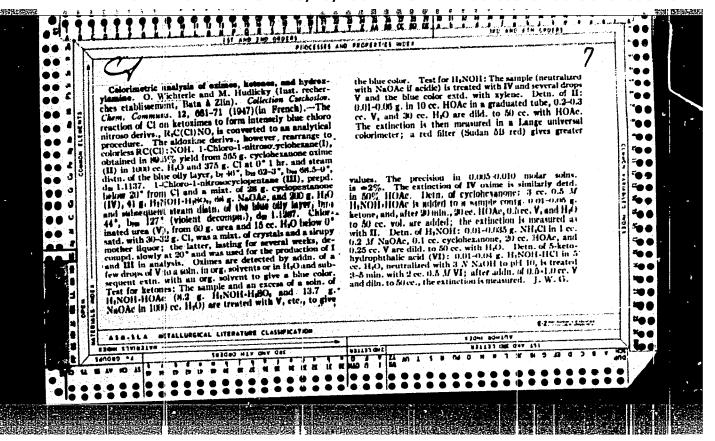


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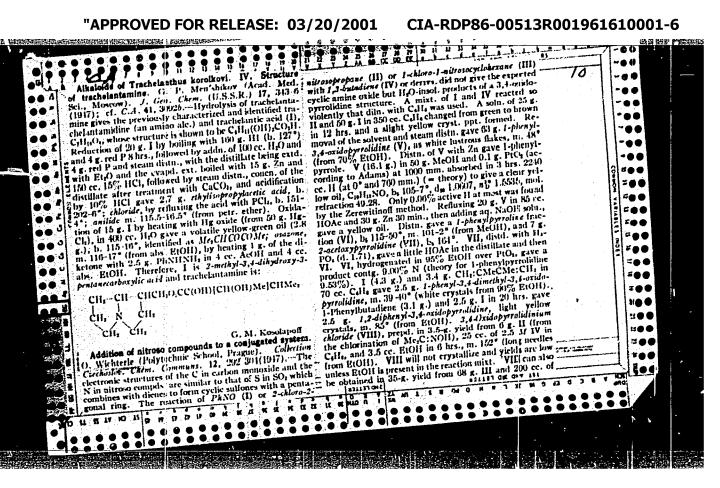
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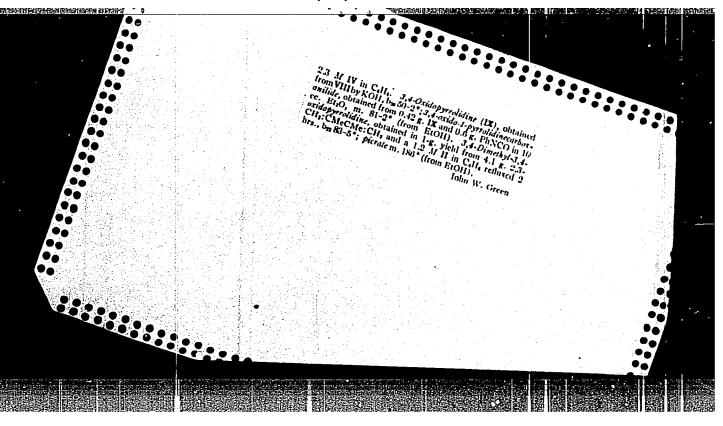


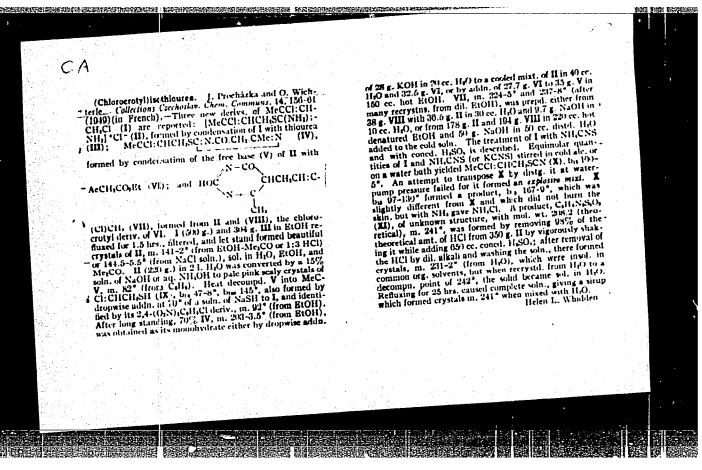
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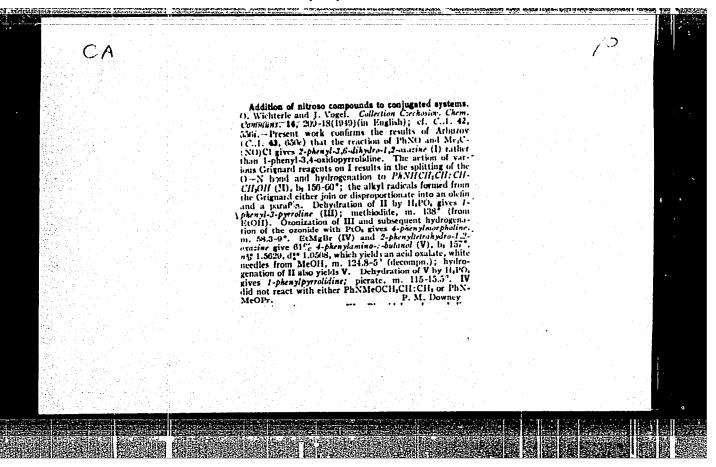
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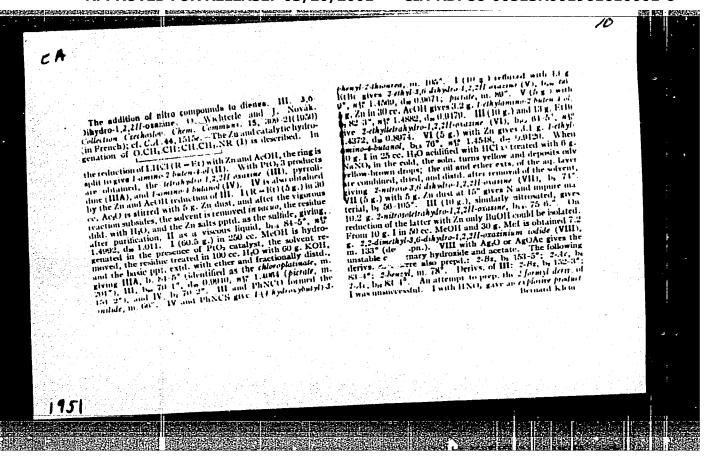


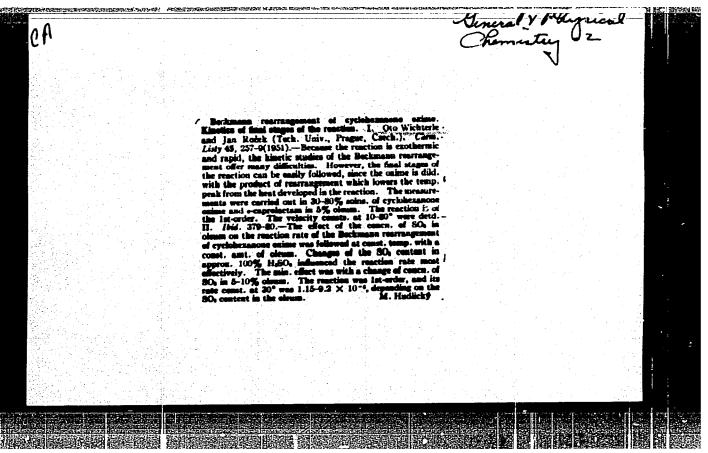
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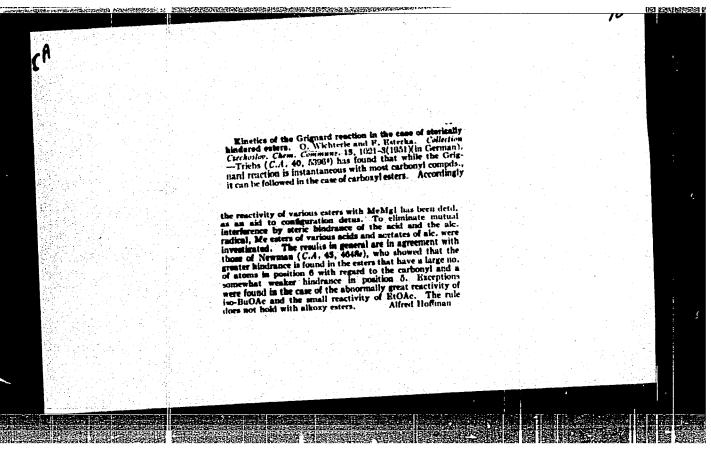




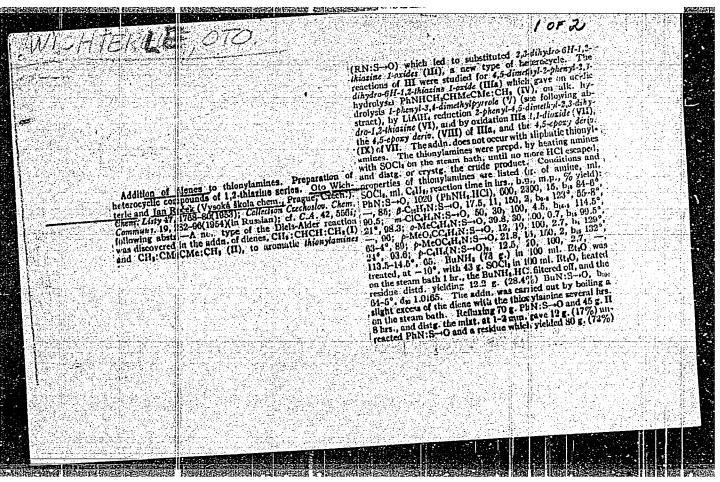


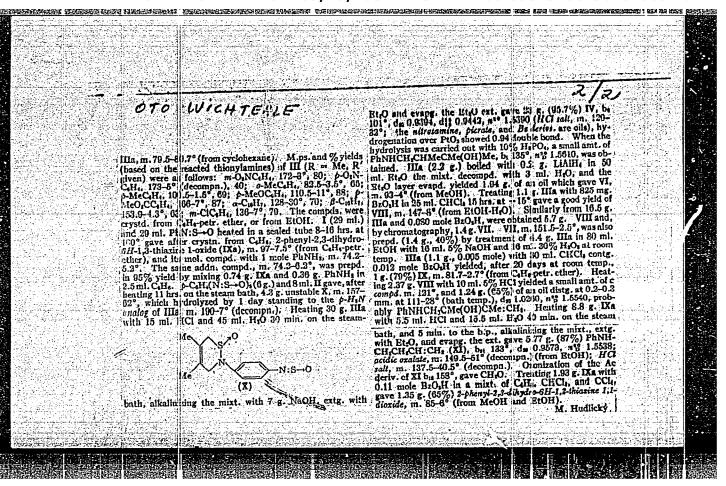


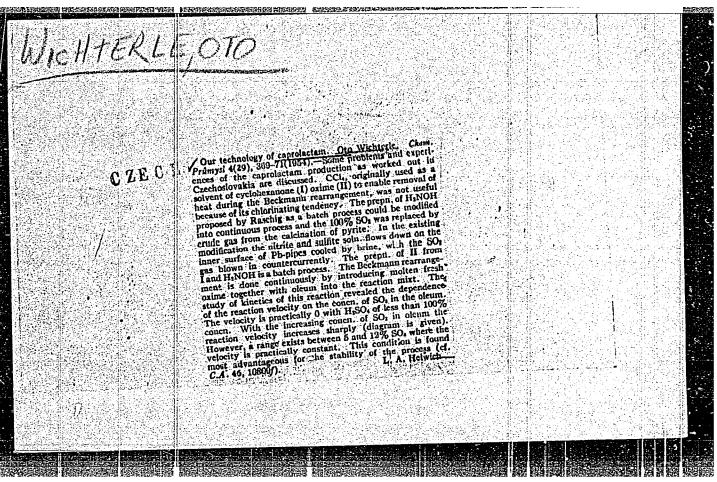


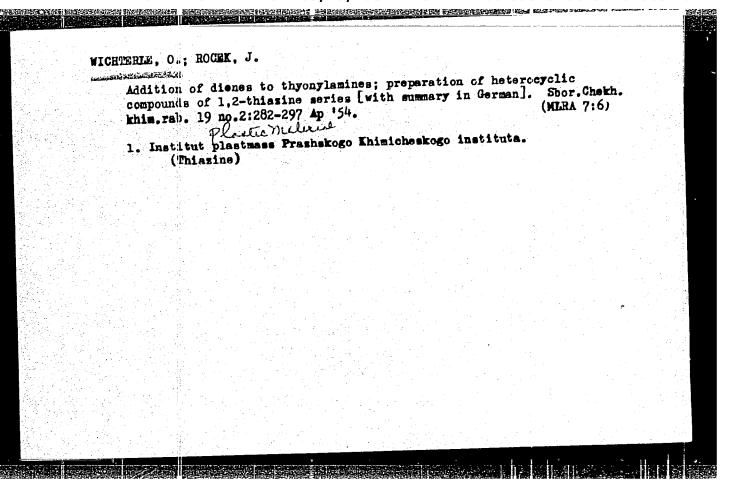


Wichterle, Otto. Anorganicka charle. (1. vyd., lake, deliver. Sekce akademie ved. 1953. 521 p. (Ceskoslovenska akademie ved. Vedu vser. Sekce akademie ved. 1953. 521 p. (Ceskoslovenska akademie ved. Vedu vser. Sekce akademie ved. 1953. 521 p. (Ceskoslovenska akademie ved. Vedu vser. Sekce akademie ved. 1953. 521 p. (Ceskoslovenska akademie ved. Vedu vser. Sekce akademie ved. 1953. 521 p. (Ceskoslovenska akademie ved. Vedu vser. Sekce akademie ved. 1953. 521 p. (Ceskoslovenska akademie ved. Vedu vser. Sekce akademie ved. 1953. 521 p. (Ceskoslovenska akademie ved. Vedu vser. Sekce akademie ved. 1953. 521 p. (Ceskoslovenska akademie ved. Vedu vser. Sekce akademie ved. 1953. 521 p. (Ceskoslovenska akademie ved. Vedu vser. Sekce akademie ved. 1953. 521 p. (Ceskoslovenska akademie ved. Vedu vser. Sekce akademie ved. 1953. 521 p. (Ceskoslovenska akademie ved. Vedu vser. Sekce akademie ved. 1953. 521 p. (Ceskoslovenska aka							res/				
S0:	Monthly	List of	East Euro	pean Acces	ssions, (E	HAL), LC	, Vol.	4, No.	11,		
	Nov. 19	55, Uncl.									
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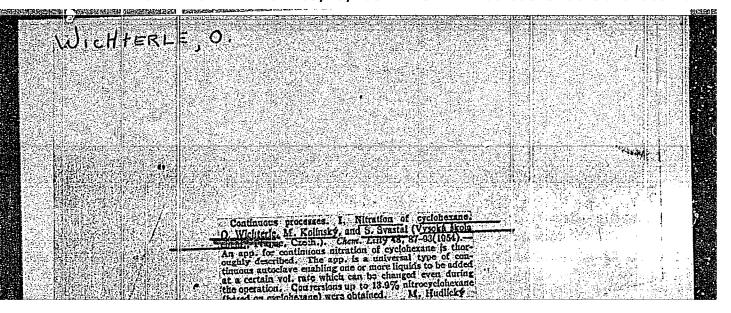


WICHTERIA, O.; KOLINSKY, M.

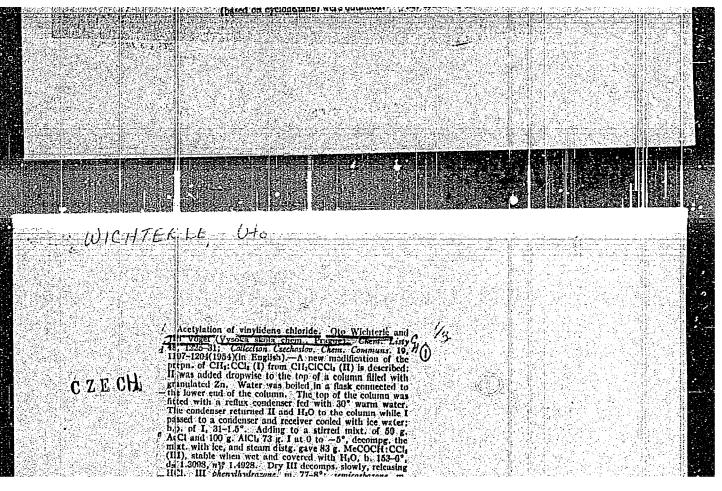
"Addition of Chloroprene to Nitroso Compounds." p. 493, (COLLECTION OF
CZECHOSLOVAK CHEMICAL COLDUNICATIONS. SBORNIK CHEMIOSLOVATSKIKH KHIMICHESKIKH

SO: Monthly List of Fast European Accessions, (EEAL), LC, Vol. 4. No. 5, May 1955, Uncl.

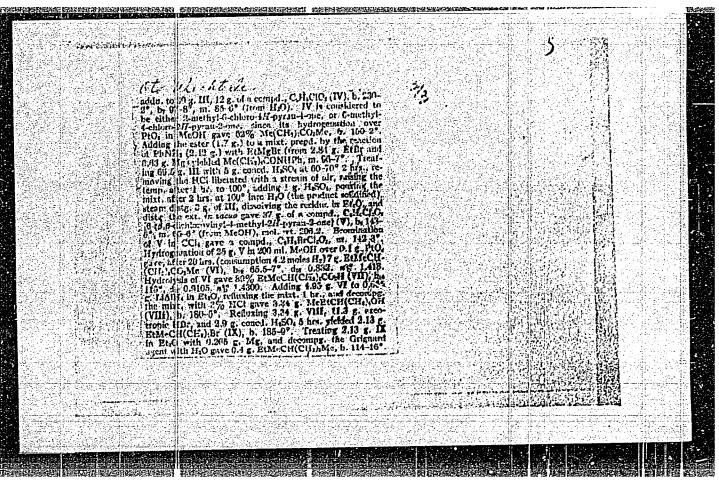
MAROT, Vol. 19, No. 3, June 1954, Praha, Czechoslovakia)

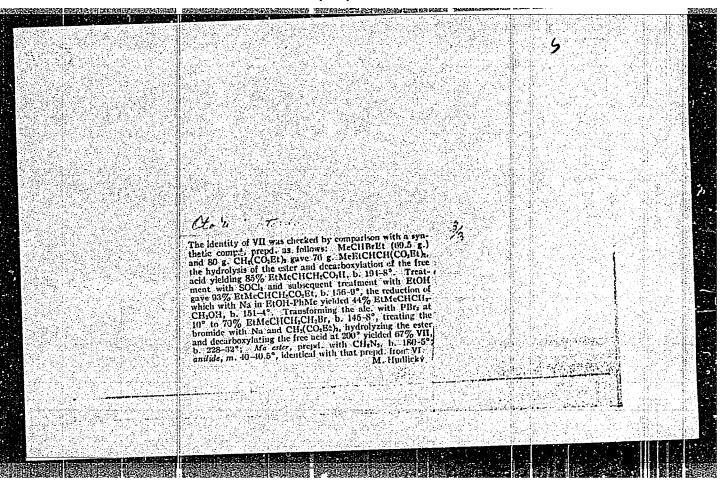


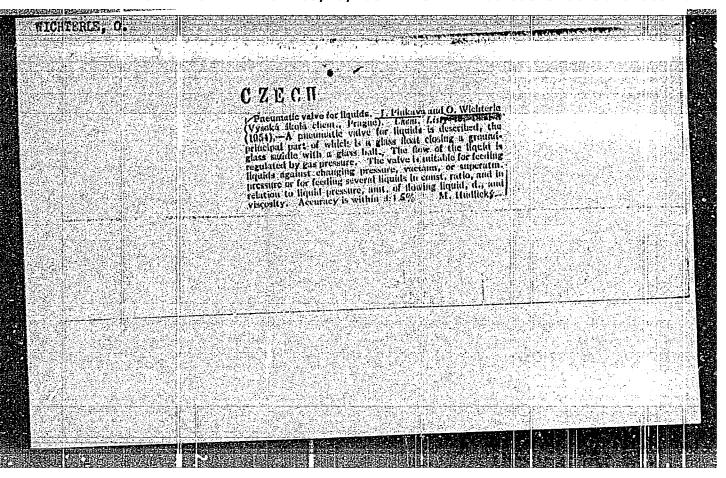
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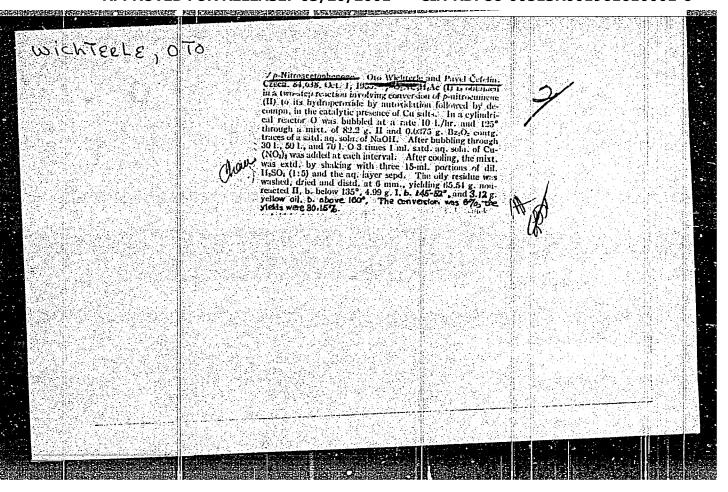
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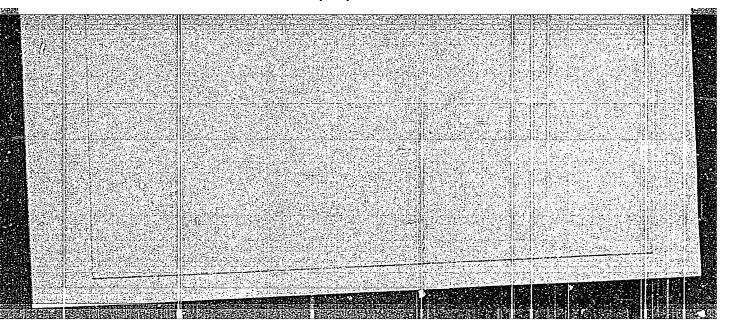


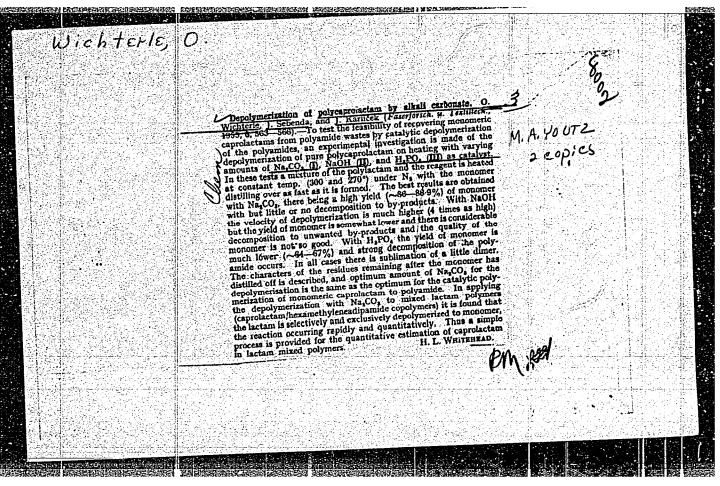


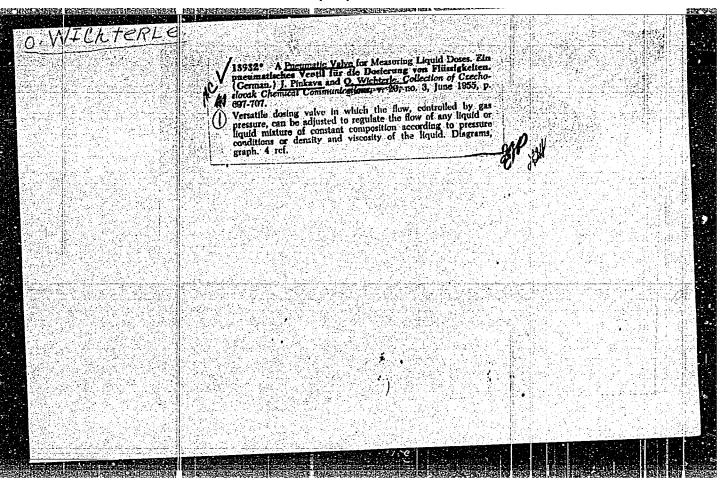
WICHTERLE, O.	Czechoslovakia
October 1955.	hemical Society in the German Democratic Republic from 19-22
"Beitrag zur Kinetik de	r kationischen Polymerisation von Isobutylen"
80: Chemische Technik	Pab 1956, Unclassified.



"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001961610001-6







WICHTERLE, O.

Czechoslovakia/Organic Chemistry - Synthatic Organic Chemistry, E-2

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 61471

Author: Wichterle, O., Cerny, J.

Institution: None

Title: Chloromethylation of Styrene

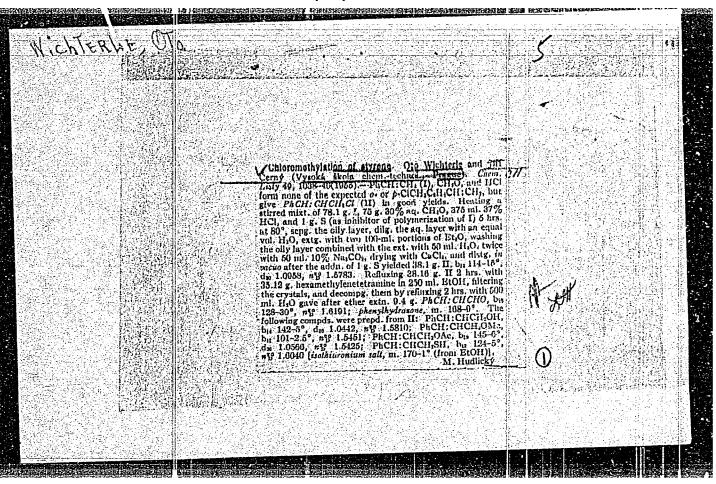
Periodical: Sb. chekhosl. khim. rabot, 1955, 20, No 6, 1288-1291; German;

Russian

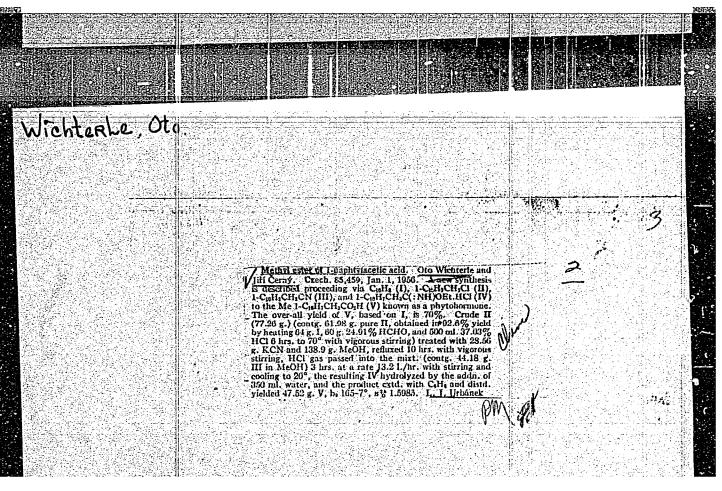
Abstract: See Referat Zhur - Khimiya, 1956, 32424

Card 1/1

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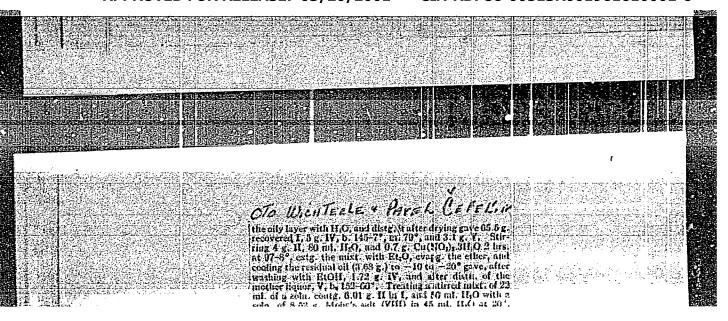
	of, Dr.) Czechoslovakia	
Neure Ent	wicklung auf dem Gebiet der Theorie und Praxis	ler Hochpolymeren
(Hauptjahrestag Republik).	ng 1956 der Chemischen Gessellschaft in der Deu	tschen Demikratischen
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Prof. Dr	O. WICHTERLE, Prag, "Uber die anionische Kapro	laktampolymerisation?"
SOURCE: <u>Plaste</u>	und Kavtschuk, Octbber, 1956, Unclassified.	

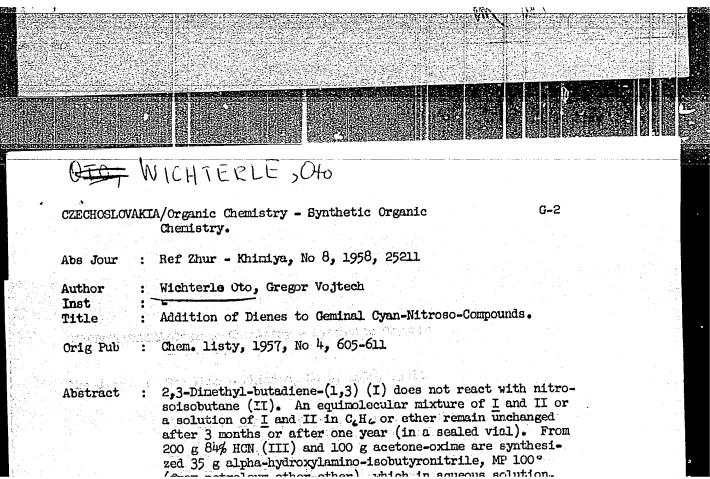
ICHTERLE, D. F. CZECHOSLOVAKIA/Chemistry of High-Molecular Substances : Referat Zhur - Kaimiya, No 2, 1957, 4636 Abs Jour Wichterle, O., Sebenda, J. Author Polymerization of Epsilon-Caprolectam by the Action of Inst Alkali Carbonates. I. Rapid Polymerization of Epsilon-Title Caprolactam by the Action of Scrium Carbonate. Sb. chekhosl. khim. rabot, 1956, 21, No 2, 312-317 Orig Pub See RZhKhim, 1956, 54678. Abstract Card 1/1

WICHTERLE, O.; EXNER, O.

Reaction of some unsturated sulfonic acids with halogens. p. 922. (Chemicke Listy, Praha. Vol. 50, no. 6, June 1956.)

SO: Monthly List of EastEuropean Accession (EEAL) LC, Vol. 6, no. 7, July 1957. Uncl.





CZECHOSLOVAKIA/Organic Chemistry - Synthetic Organic Chemistry •

G-2

Abs Jour : Ref Zhur - Khimiya, No 8, 1958, 25211

a filipikan palalipikan dan angari balan sibanaha BP 90-91°/40 mm, and a certain amount of tris-(2-cyan-2propyl)-hydroxylamine, MP 79-80°. Moist IV and butadiene-(1,3) (VII). in C.H. (20, 24 hours), form 2-(2-cyan-2-propyl)-3,6-dihydro-1,2-oxazine (VIII), yield 71%, BP 69-69.5 /1 mm, 76-78 /3 mm, n20D 1.4689, d4²⁰ 1.028. VIII is also formed on allowing 3,6-dihydro-1,2-oxazine (IX) and acetone-cyanohydrin to stand for 5 days, yield 87%. Analogously to VIII is synthesized from dry VI and I the 2-(1-cyan-cyclohexyl)3,6-dihydro-4,5-dimethyl-1, Z-oxazine, yield 60%, MP 111.5-112 (from CH3OH). If no solvent is used a vigorous reaction takes place and the substance is decomposed with formation of triu-)1-cyancyclohexyl)-hydroxylamine (X) which is difficult to isolate. Analogously to VIII is obtained, from moist VI and VII (12 hours), 2-(1-cyan-cyclohexyl)-3,6-dihydro-1,2oxazine (XI), yiled 81%, BP 155-156 /12 mm, MP 53.50

Card 3/

1s obtained thereafter (5-15°, 6 days) 2-(1-cyan-

CZECHOSLOVAKIA/Organic Chemistry - Synthetic Organic Chemistry.

G-2

Abs Jour : Ref Zhur - Khimiya, No 8, 1958, 25211

cyclohexyl)-tetrahydro-1,2-oxazine, yield 52%, BP 117°//3 rm, MP 43.5° (from CH 30H or hexane), n20D 1.4869, which is also formed on hydrogenation of 10 g XI over Pt in CH 30H, yield 9.37 g. Analogously a hydrogenation of 5.55 g XIV produces 5.3 g 2-(1-cyan-cyclohexyl)-3(6?)-methoxy-tetrahydro-1,2-oxazine, MP 64-65° (from CH 30H). On the basis of the results of the present and previous researches (see RZhKhim, 1954, 45326) a rule is formulated concerning the capacity of nitroso-compounds to undergo diene-addition: in the aliphatic series the dienophilic nature is exhibited only by those nitroso-compounds from the nitroso-group of which electrons are drawn off by the action of a proximal strongly polar linkage (C-Cl, C c). An analogous phenomenon is observed in the case of aromatic nitroso-compounds, wherein the free pair of

Card 5/6

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CZECHOSLOVAKIA/Organic Chemistry - Synthetic Organic G-2
Chemistry.

Abs Jour : Ref Zhur = Khimiya, No 8, 1558, 05011

electrons at N is drawn off as a result of conjugation of nitroso-group and aromatic ring.

Card 6/6

WICHTERLE, O.; MELINGER, J.

A method for preparing linear density gradients and their use in polymerization studies.

P. 265. (Chemicky Prumysl.) (Praha, Czechoslavakia) Vol. 7, No. 5, May 1957

SO: Monthly Index of East European Accession (EEAI) LC. Vol. 7, No. 5, May 1958

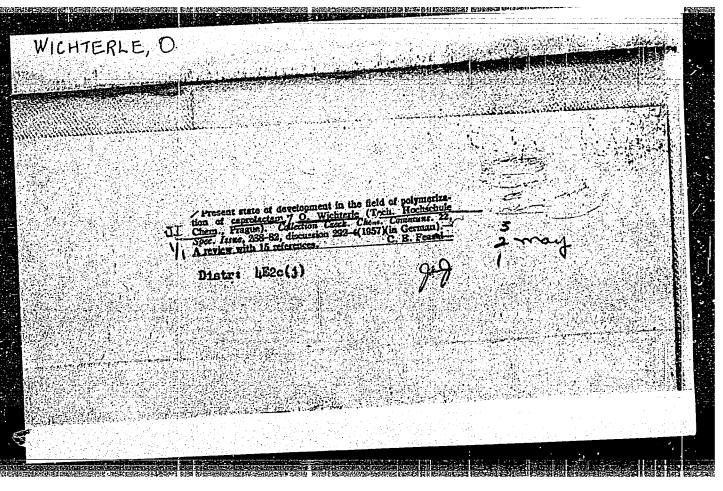
WICHTERLE, O. : CEFELIN, P.

"Preparation and decomposition of -intro- -cumylhydroperoxide.
In German."

p. 276. (COLLECTION OF CZECHOSLOVAK CHEMICAL COMMUNICATIONS. SBORNIK CHECKHOSLOVATSKIKH KHMICHESKIKH RABOT. -- Praha, Czechoslovaka.)
Vol. 22, No. 1, Feb. 1957

SO: Monthly Index of East European Accession (EEAI) IC, Vol. 7, No. 5, May 1958

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001961610001-6



WICHTERLE,O CZECHOSLOVAKIA/Chemistry of High-Molecular Substances. Ι Abs Jour: Ref. Zhur-Khimiya, No 11, 1958, 38492. Author : Wichterle O. Sebenda J. Inst : Not ziven. Title : Polymerization of & -Caprolactam by the Action of Alkali Carbonates. II. The Kinetics and Mechanism of Alkali Polymerization of & -Caprolactam Sb chekhosl khim rabot, 1957, 22, No 5, 1353-1367. nez deserci Abstract: See RZhKhim, 1956, 65167. Standards and the first of the first of the standards of the section of રા પ્રોતિકામણી ઉજાત કરો ફિરામું છે છુકા માટે જિલ્લો કિલ્લામાર્થી માનવા પછી Card mole for I and 27.2 kcal/mole for II. Logarithm of analytic preceding the exponent is 9.56-10.21 for I and

CZECHOSLOVAKIA/Hysical Chemistry - Kinetics, Combustion.

Explosions, Topochemistry. Catalysis.

Abs Jour : Ref Zhur - Khimiya, No 8, 1958, 24214

11.08-11.40 for II, depending on the concentration of H₂SO₁ (0.1-0.4 M). Velocity constants are a linear function of H₂SO₁ concentration.

WICHTERLE, OTTO

CZECHOSLOVAKIA/Laboratory Equipment, Apparatus, Their Theory, Construction and Application.

.

F.

Abs Jour

: Ref Zhur - Khimiya, No 14, 1958, 46532

Author

: Otto Wichterle, Otokar Mikes

Inst Title

Simple Instrument for Countercurrent Separation.

Orig Pub

: Chem. listy, 1957, 51, No 8, 1569-1574

Abstract

The construction of a laboratory instrument for countercurrent separation of liquids is described. The instrument consists of a series of cells - glass tubes of a special shape - fixed on a common pivot stand. Several schemes of cell connection and an example of the instrument application are presented.

Card 1/1

CZECHOSLOVAKIA/Chemistry of High-rolecular Substances.

Abs Jur : Ref Zhur - Khimiya, No 17, 1958, 59749

Author

Wichterle Oto, Zelinka Jiri

Inst Title : Copolymerization of Different Vinylidenehalides.

Orig Pub

: Chem. listy, 1957, 51, No 11, 2146-2148.

Abstract

Systems of 1-chlor-1-bromethylene (I) - 1.1-dichlore-thylene (II) and 1.1-dibromethylene (III)-II were investigated. The composition of the copolymers was found by analytical determination of halogens with an accuracy of $\pm 0.1\%$. The following values were obtained for the constants of copolymerization: for I-II, $r_1=2.38\pm0.06$, $r_2=0.83\pm0.08$; for III-II, $r_1=1.90\pm0.11$, $r_2=1.04\pm0.10$. Monomers were preserved for the prevention of spontaneous polymerization in 50% alcohol solutions.

card 1/1